

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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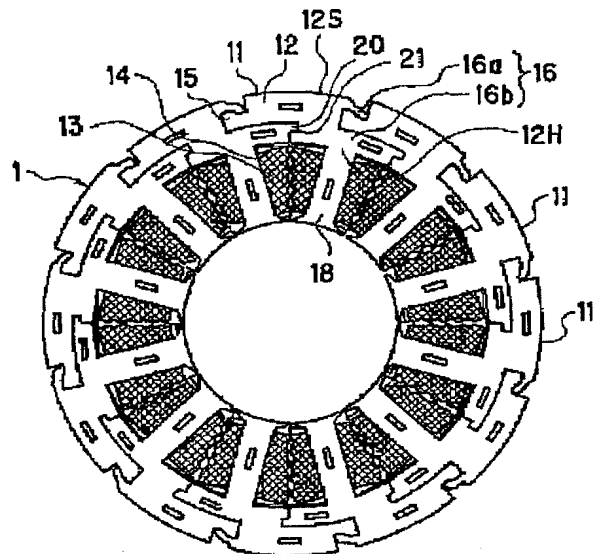
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APPLICANT : SHINKO ELECTRIC CO LTD;

INVENTOR : KOBAYASHI ATSUSHI;

INT.CL. : H02K 1/18 H02K 15/02 // H02K 1/14

TITLE : STATOR OF ELECTRIC ROTARY  
MACHINE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a stator of an electric rotary machine requiring no expensive laser welding equipment that is conventionally necessary for the assembly of a stator.

SOLUTION: A wire 13 is wound around a plurality of laminated cores 11, divided in the circumferential direction on a pole tooth-by-pole tooth basis, in the direction orthogonal to the pole teeth 18, and the plurality of the laminated cores 11 are joined together into a cylindrical shape. Further, projections 15 formed at one end of the periphery 12 of the laminated core 11 in the circumferential direction are fit into recesses 16 formed at the other end of the periphery of the adjacent laminated cores. Then the outer pieces 16a of the recesses 16 are caulked in the direction of inner circumference, and the laminate cores 11 are anchored to one another to form a stator. The laminated cores 11 are formed by laminating and caulking a plurality of iron plates each having a projection 15 (21) at one end and a recess 16 (20) at the other end. The periphery 12 of the laminated cores 11 contains a main fitting portion 12S on the outer circumference side and a sub-fitting portion 12H on the inner circumference side. The plurality of the laminated cores are anchored to one another by caulking in the direction of inner circumference the outer pieces 16a of the main recesses 16 comprising the main fitting portions 12S.

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